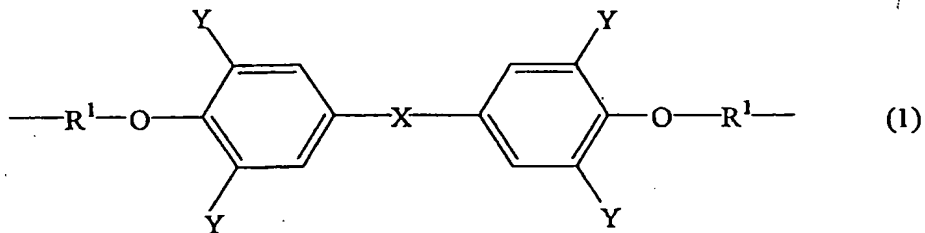


CLAIMS

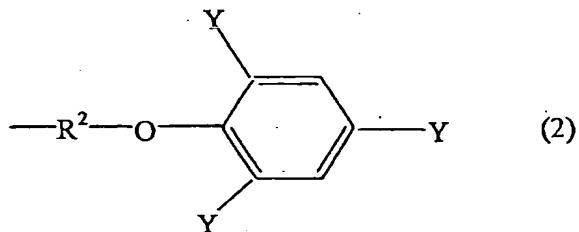
1. (amended) A photosensitive resin composition for optical waveguide formation, comprising:

5 (A) a di(meth)acrylate having the structure represented by the following general formula (1):



(wherein  $\text{R}^1$  is  $\text{---(OCH}_2\text{CH}_2)_m\text{---}$ ,  $\text{---(OCH(CH}_3\text{)CH}_2)_m\text{---}$ , or  $\text{---OCH}_2\text{CH(OH)CH}_2\text{---}$ ; X is  $\text{---C(CH}_3)_2\text{---}$ ,  $\text{---CH}_2\text{---}$ ,  $\text{---O---}$ , or  $\text{---SO}_2\text{---}$ ; Y is a hydrogen atom or a  
10 halogen atom; m is an integer of 0 to 4);

(B) a mono(meth)acrylate having the structure represented by the following general formula (2):



(wherein  $\text{R}^2$  is  $\text{---(OCH}_2\text{CH}_2)_p\text{---}$ ,  $\text{---(OCH(CH}_3\text{)CH}_2)_p\text{---}$ , or  $\text{---OCH}_2\text{CH(OH)CH}_2\text{---}$ ; Y  
15 is a hydrogen atom, a halogen atom,  $\text{Ph---C(CH}_3)_2\text{---}$ ,  $\text{Ph---}$ , or an alkyl

group having 1 to 20 carbon atoms; p is an integer of 0 to 4; Ph is a phenyl group);

(C) a photoradical polymerization initiator; and  
tris(2-acryloyloxyethyl)isocyanurate.

5

2. The photosensitive resin composition for optical waveguide formation according to claim 1, wherein the weight ratio (A/B) of said component (A) to said component (B) is 0.3 to 5.0.

10

3. The photosensitive resin composition for optical waveguide formation according to claim 1 or 2, wherein the total amount of said component (A) and said component (B) in said resin composition is 30 wt.% or higher.

15

4. (amended) The photosensitive resin composition for optical waveguide formation according to any one of claims 1 to 3, wherein the amount added of said tris(2-acryloyloxyethyl)isocyanurate is 10 to 25% by weight.

20

5. The photosensitive resin composition for optical waveguide formation according to any one of claims 1 to 4, wherein the refractive index of the cured product of said resin composition at 25°C and 824 nm is 1.54 or higher.

6. The photosensitive resin composition for optical waveguide formation according to any one of claims 1 to 5, wherein the glass transition temperature (Tg) of the cured product of said resin composition is 80°C or higher.

7. An optical waveguide comprising a core layer, and a clad layer formed by lamination on said core layer, wherein said core layer and/or said clad layer is composed of the cured product of the resin composition of any one of claims 1 to 6.

8. A method for manufacturing an optical waveguide, comprising a step of irradiating the resin composition of any one of claims 1 to 6 with radiation via a photomask and curing said resin composition.